

NGDA Theme Community Meeting

January 9, 2020
1:00 – 2:30 PM ET



Webinar:

<https://attendee.gotowebinar.com/register/3974175286980974091>

Dial-In:

703.648.4848 / Toll Free: 855.547.8255
Code: 79000#

Agenda

- ❖ Roll Call
- ❖ Welcome!
- ❖ Theme Report Status
- ❖ Federal Initiatives (A –16, Federal Data Strategy, GDA Reporting, NSDI Strategic Plan, etc.)
 - ❖ FDS 2020 Action Plan
- ❖ Metadata Initiatives
 - ❖ Understanding and Improving Metadata Publishing Workflows
 - ❖ Metadata Guidelines
- ❖ NGDA Inventory & POC Updates
- ❖ Action Item Review
- ❖ 2020 Meeting Schedule
- ❖ Open Discussion

Roll Call

| Theme | Name | Agency |
|-----------------------------|--------------------|---------------|
| Address | Lynda Liptrap | Census Bureau |
| Address | Steve Lewis | DOT |
| Biodiversity and Ecosystems | Marcia McNiff | USGS |
| Cadastral | Dominica VanKoten | BLM |
| Climate and Weather | Kari Sheets | NOAA |
| Cultural Resources | Deidre McCarthy | NPS |
| Elevation | Ashley Chappell | NOAA |
| Elevation | Sue Buto (Jan-Apr) | USGS |
| Geodetic Control | Daniel Roman | NOAA |
| Geology | Paul Godfriaux | BOEM |
| Geology | Dave Soller | USGS |

| Theme | Name | Agency |
|---------------------------|---------------------------|---------------|
| Governmental Units | Dierdre Bevington-Attardi | Census Bureau |
| Imagery | Greg Snyder | USGS |
| Imagery | John Mootz | USDA |
| Land Use - Land Cover | Greg Reams | USFS |
| Land Use - Land Cover | Brad Reed | USGS |
| Real Property | Valerie Butler | GSA |
| Soils | Drew Kinney | USDA |
| Transportation | Derald Dudley | DOT |
| Utilities - Offshore | Jeff Harris | BSEE |
| Utilities - Terrestrial | TBD | |
| Water - Inland | Megan Lang | FWS |
| Water - Inland | Becci Anderson | USGS |
| Water - Oceans and Coasts | Patrick Keown | NOAA |

2017-2019 Theme Reports Status

As of 1/8/2020

| Theme | Strategic Plan (Status and Dates) | FY17 Implementation Plan Due Oct '17 | FY18 Implementation Plan Due Oct '18 | FY19 Implementation Plan Due Oct '19 |
|-----------------------------|-----------------------------------|--------------------------------------|--|--------------------------------------|
| Address ⁺ | Posted (2019-2021) | N/A ⁺ | N/A ⁺ | Posted |
| Biodiversity and Ecosystems | Posted (2016-2021) | Not Submitted | In Progress (per meeting with TL Marcia McNiff on 4/10/19) | |
| Cadastre* | Posted (2017-2021) | Posted | Posted | |
| Climate and Weather | Posted (2015-N/A**) | See FY18 TIP | Posted | |
| Cultural Resources | Posted (2015-N/A**) | Posted | Posted | |
| Elevation* | Posted (2016-N/A**) | Posted | Posted | In progress |
| Geodetic Control* | Posted (2017-2021) | Posted | Posted | Posted |
| Geology | Posted (2017-2022) | Posted | Posted | |
| Governmental Units* | Posted (2017-2021) | Posted | Posted | Posted |
| Imagery* | Posted (2017-2020) | Posted | Posted | Posted |

+ New Theme; Strategic Plan finalized FY19

* Framework Themes

** N/A – Not Available

**Contact Lorna Schmid for help
completing reports:
NGDATeam@fgdc.gov**

2017-2019 Theme Reports Status (con't.)

As of 1/8/2020

| Theme | Strategic Plan (Status and Dates) | FY17 Implementation Plan Due Oct '17 | FY18 Implementation Plan Due Oct '18 | FY19 Implementation Plan Due Oct '19 |
|--------------------------|---|--------------------------------------|---|--------------------------------------|
| Land Use Land Cover | Posted (2017-2022) | Posted | Draft submitted; being finalized by Co-TL pending final discussion and edit | |
| Real Property | Posted (2018-2022) | Posted | Not Submitted (Discuss with new TL Valerie Butler) | |
| Soils | Posted (2016-N/A) | Not Submitted | Not Submitted (follow up email sent to Drew Kinney on 9/30) | |
| Transportation* | Posted (2016-2019) | Posted | Posted | |
| Utilities | Posted (2016-N/A; BSEE SP ends 2019) | Not Submitted | Not Submitted (follow up email sent to Jeff Harris on 9/30) | |
| Water Inland* | Posted (2016-N/A; refs. 5 years in TSP) | Posted | Posted | |
| Water Oceans and Coasts* | Posted (2017-2021) | Posted | Posted | |

+ New Theme; development in progress.

* Framework Themes

** N/A – Not Available

**Contact Lorna Schmid for help
completing reports:
NGDATeam@fgdc.gov**

FY19 Theme Plans – Due October 31

- ❖ *FY18 are now past due – contact NGDATeam@FGDC.gov*
- ❖ **Action: Review/Update Theme Strategic Plan**
 - ❖ Review/update as needed: Goals, Objectives, and Actions
- ❖ **Action: Update Theme Implementation Plans to FY19**
 - ❖ Strategic and Implementation Plans located on each Theme Community
 - ❖ TIP Template: https://communities.geoplatform.gov/ngda-portfolio/wp-content/uploads/NGDA_Templates/Theme-Implementation-Plan-Template_updated_20190613.docx
 - ❖ Align as needed: Goals, Objectives, and Actions with Theme Strategic Plan
 - ❖ Update Progress table from FY18 to FY19
 - ❖ Email the NGDA Team (ngdateam@fgdc.gov) if you need Word version of completed FY18 plan or check the NGDA NCC.

Submittal Due Date: October 31, 2019

Federal Data Initiatives



Newly Released Federal Data Strategy 2020 Action Plan

- ❖ Flagship product of the President's Management Agenda
 - ❖ Direct result of Cross-Agency Priority Goal 2 "Leveraging Data as a Strategic Asset" led by the
 - ❖ Executive Office of the President's Office of Management and Budget and
 - ❖ Office of Science and Technology Policy,
 - ❖ the Department of Commerce, and
 - ❖ the Small Business Administration
- ❖ Designed to be cross-cutting and to
 - ❖ support agencies as they implement existing policies and laws,
 - ❖ Prioritize foundational activities for agencies in developing a mature data asset management environment

Federal Data Strategy 2020 Action Plan

- ❖ Includes 20 actions
 - ❖ Broken into three distinct categories:
 - ❖ Agency Actions (6)
 - ❖ Community of Practice Actions (4)
 - ❖ Shared Solution Actions (10)
 - ❖ Each action has multiple milestones with “Measurement,” Target Date and Responsible Party
- ❖ Agencies are asked to review the plan as part of implementing the Actions
- ❖ Lorna’s PSA: Anyone with a .gov or .mil email address can join the Open-Data Listserv
 - ❖ Email listserv@listserv.gsa.gov, the message should have no subject and the body should say "subscribe open-data."

FDS 2020 Action Plan – Agency Actions

Foundational steps to support establishing plans, processes, and priorities for better managing data assets while considering how the agency's data assets could be leveraged to advance the agency's mission

| Agency Actions | | | |
|---|---|---|---|
| | Foundations for Evidence-Based Policymaking Act of 2018 and Associated OMB Guidance | Executive Order on Maintaining American Leadership in Artificial Intelligence | Improving Implementation of the Information Quality Act (M-19-15) |
| 1. Identify Data Needs to Answer Priority Agency Questions | ✓ | | ✓ |
| 2. Constitute a Diverse Data Governance Body | ✓ | | ✓ |
| 3. Assess Data and Related Infrastructure Maturity | | | ✓ |
| 4. Identify Opportunities to Increase Staff Data Skills | ✓ | | |
| 5. Identify Priority Data Assets for Agency Open Data Plans | ✓ | ✓ | ✓ |
| 6. Publish and Update Data Inventories | ✓ | | |

- Agencies will establish baselines based on current status
- Understood that there are different levels of maturity
- Tools and Resources will be posted to resources.data.gov

FDS 2020 Action Plan – Community of Practice Actions

Key opportunities for agencies to build upon ongoing efforts to improve and better coordinate data-related initiatives across agencies.

| Community of Practice Actions | | | | |
|--|---|---|---------------------------------|--|
| | Foundations for Evidence-Based Policymaking Act of 2018 and Associated OMB Guidance | Executive Order on Maintaining American Leadership in Artificial Intelligence | The Geospatial Data Act of 2018 | Appendix A to OMB Circular No. A-123 Management of Reporting and Data Integrity Risk (M-18-16) |
| 7. Launch a Federal Chief Data Officer Council | ✓ | | | |
| 8. Improve Data and Model Resources for AI Research and Development | | ✓ | | |
| 9. Improve Financial Management Data Standards | | | | ✓ |
| 10. Integrate Geospatial Data Practices into the Federal Data Enterprise | | | ✓ | |

Capitalize on work related to the

- Executive Order on Maintaining American Leadership in Artificial Intelligence
- Geospatial Data Act of 2018
- Evidence Act
- Efforts related to the management and use of several financial management data assets across government

FDS 2020 Action Plan – Shared Solution Actions

Government-wide data services and represent discrete pilot projects or efforts led by a single agency or existing council for the benefit of all agencies

| Shared Solution Actions | | | |
|--|---|---|---|
| | Foundations for Evidence-Based Policymaking Act of 2018 and Associated OMB Guidance | Executive Order on Maintaining American Leadership in Artificial Intelligence | Improving Implementation of the Information Quality Act (M-19-15) |
| 11. Develop a Repository of Federal Enterprise Data Resources | ✓ | | |
| 12. Create an OMB Federal Data Policy Committee | ✓ | | |
| 13. Develop a Curated Data Skills Catalog | ✓ | | |
| 14. Develop a Data Ethics Framework | | ✓ | ✓ |
| 15. Develop a Data Protection Toolkit | ✓ | | ✓ |
| 16. Pilot a One-Stop Standard Research Application | ✓ | | |
| 17. Pilot an Automated Tool for Information Collection Reviews that Supports Data Inventory Creation and Updates | ✓ | ✓ | |
| 18. Pilot Enhanced Data Management Tool for Federal Agencies | ✓ | ✓ | |
| 19. Develop Data Quality Measuring and Reporting Guidance | | | ✓ |
| 20. Develop a Data Standards Repository | | | ✓ |

- Designed to provide government-wide direction, tools, and/or services for implementing the strategy that other agencies will be able to leverage in the future
- Many of the Shared Solution Actions have received financial resources as part of the CAP
Goal: *Leveraging Data as a Strategic Asset* and are already underway

Action 10: Integrate Geospatial Data Practices into the Federal Data Enterprise

| Milestone | Measurement | Target Date | Responsible Party |
|--|--|-------------|--|
| Establish the NSDI strategic plan | Completion | 12 months | SAOGI at OMB, FGDC, FGDC NGDA Lead Covered Agencies, GSA |
| Publish a GeoPlatform providing standards-compliant web services for NGDAs | Completion | 12 months | SAOGI at OMB, FGDC, FGDC NGDA Lead Covered Agencies, GSA |
| Engage with other relevant councils | Number of engagements | 12 months | SAOGI at OMB, FGDC, FGDC NGDA Lead Covered Agencies, GSA |
| Publish NGDA data theme data assets with standards compliant metadata and webservice endpoints | Percentage of NGDA data assets that are compliant | 12 months | SAOGI at OMB, FGDC, FGDC NGDA Lead Covered Agencies, GSA |
| Track NGDAs for implementation of standards | Percentages of NGDAs with: i) metadata standards, ii) established content standards, iii) standards in process, iv) data assets not requiring standards, v) no established standards | 12 months | SAOGI at OMB, FGDC, FGDC NGDA Lead Covered Agencies, GSA |

Metadata Initiatives



Status of Metadata Initiatives – New Metadata Guidelines:

FGDC Technical Guidance: Data.gov and The GeoPlatform Metadata Recommendations - including Guidelines for National Geospatial Data Assets (NGDA)

- ❖ Provides ISO and CSDGM exemplars
- ❖ Located online <https://fgdc.gov/technical-guidance>
- ❖ Replaces deprecated metadata documents:
 - ❖ “Metadata Recommendations Supporting Data Discovery and Use in Data.gov and the Geospatial Platform” and
 - ❖ “National Geospatial Data Asset (NGDA) Metadata Guidelines”
- ❖ Provides limited guidance on CSDGM

Understanding and Improving Metadata Publishing Workflows

- ❖ Data.gov, GeoPlatform.gov, GSA, the NGDA Portfolio Teams are working to test a representative sampling of geospatial metadata records delivered by agencies to:
 - ❖ Improve the publishing workflows of federal geospatial metadata
 - ❖ Build a complete understanding of metadata transformations and available formats
 - ❖ Identify failing processes
- ❖ The NGDA Team obtained 17 metadata records representing various formats and content
- ❖ Outreach to Dataset Managers and Theme Leads requesting metadata files was conducted in late 2019

Understanding and Improving Metadata Publishing Workflows

Metadata files Received for Testing

| NGDAID | Submitted | NGDA Theme | Agency | NGDA |
|--------|-----------|---|------------|--|
| 13 | Yes | Cadastre | USDA-USFS | FS National Forest Dataset (US Forest Service Proclaimed Forests) |
| 16 | Yes | Cadastre | DOI-NPS | Administrative Boundaries of National Park System Units 3/31/2019 - National Geospatial Data Asset (NGDA) NPS National Parks Dataset |
| 20 | Yes | Cadastre | DOI-BOEM | Outer Continental Shelf Lease Blocks - Atlantic Region NAD83 |
| 21 | Yes | Cadastre | DOI-BOEM | Outer Continental Shelf Lease Blocks - Gulf of Mexico Region NAD27 |
| 27 | Yes | Cadastre | DOI-USGS | Protected Areas Database of the United States (PAD-US) |
| 188 | Yes | Cadastre | DOI-BLM | BLM National Surface Management Agency Area Polygons |
| 34 | Yes | Cultural Resources | DOI-USGS | Geographic Names Information System (GNIS) |
| 41 | Yes | Elevation | DOC-NOAA | MultiBeam Bathymetry Database (MBBDB) |
| 42 | Yes | Elevation | DOI-USGS | 1/3rd arc-second Digital Elevation Models (DEMs) |
| 44 | Yes | Elevation | DOC-NOAA | Marine Trackline Geophysics Database |
| 45 | Yes | Elevation | DOC-NOAA | NOS Hydrographic Surveys Collection |
| 48 | | Geodetic Control | DOC-NOAA | Continuously Operating Reference Stations (CORS) |
| 54 | | Geology | DOI-BSEE | Outer Continental Shelf Oil and Natural Gas Wells - Gulf of Mexico Region NAD 27 |
| 58 | Yes | Governmental Units, and Administrative and Statistical Boundaries | DOC-Census | 2010 Census 5-digit ZIP Code Tabulation Area |
| 90 | Yes | Governmental Units, and Administrative and Statistical Boundaries | DOC-Census | State and Equivalent |
| 98 | Yes | Imagery | NASA | Advanced Spaceborne Thermal Emission and Reflection Radiometer (ASTER) |
| 128 | | Real Property | HUD | FHA Single Family REO Properties For Sale |
| 136 | | Soils | USDA-NRCS | Soil Survey Geographic Database (SSURGO) |
| 161 | No | Water - Inland | DoD-USACE | National Levee Database |
| 159 | Yes | Water – Inland | DOI-USGS | National Hydrography Dataset (NHD) |
| 162 | Yes | Water - Inland | DOI-FWS | National Wetlands Inventory - Wetlands |
| 166 | Yes | Water - Oceans and Coasts | DOC-NOAA | NOAA Raster Navigational Charts (RNC) |
| 167 | | Water - Oceans and Coasts | DOC-NOAA | Maritime Limits and Boundaries of the United States of America |

Understanding and Improving Metadata Publishing Workflows

❖ Next Steps

- ❖ Validate Schemas -complete
- ❖ Create Test WAF
- ❖ Test candidates harvested by Data.gov
- ❖ Test CSDGM to ISO 19139 transform with:
 - Existing transform
 - New transform
- ❖ Compare output from Data.gov with original metadata
- ❖ Compile and report test results
- ❖ Recommend:
 - Improvements in workflow
 - Improvements in metadata

Understanding and Improving Metadata Publishing Workflows

- ❖ Following testing we will get feedback from NGDA Theme Lead Community
- ❖ Results of the testing will be:
 - ❖ Documented and analyzed to build a complete understanding of what transformations are occurring and the needs of these systems, along with any failing processes.
 - ❖ Tracked (environment is being established) allow us to establish consistent reporting tools for compliance with the Geospatial Data Act, the Evidence Based Policymaking Act and other federal requirements moving forward
 - ❖ Shared with the FGDC NGDA Community

NGDA Metadata Efforts

- ❖ **BIA:** Work on harvesting in general, NGDA, and deprecating NGDA metadata from FGDC WAF
- ❖ **Imagery Theme:** Determine LANDSAT NGDA ownership (NASA and USGS have similar products listed as NGDA)
- ❖ **Soils Theme:** Determine new/replacement NGDA and formulating metadata
- ❖ **USACE:** NGDA metadata management
- ❖ **Land Use - Land Cover Theme:** Work to verify Land Cover NGDA datasets
- ❖ **Cadastre Theme:** BLM Updating pending NGDA
- ❖ **Other Efforts?**

Other Metadata Efforts

- ❖ Will be scheduling a Metadata Working Group Meeting to discuss:
 - ❖ XSLT Transform to ISO 19139 from CSDGM
 - ❖ 19115-3 Style for ArcGIS Desktop
 - ❖ Metadata Guidelines
 - ❖ Federal Data Strategy Action Plan

NGDA Inventory & POC Updates

❖ Theme Executive Champion Change

| NGDA Theme | New Theme Executive Champion | Previous Exec. Champion |
|------------|------------------------------|-------------------------|
| | | |

❖ Theme Lead Change

| NGDA Theme | New Theme Lead | Previous Theme Lead |
|------------|--|---------------------|
| Elevation | Sue Buto (Jan-Apr 2020 detail; new TL pending] | Diane Eldridge |

❖ Dataset Manager Changes

| NGDA Dataset Name | Theme | New Dataset Manager | Previous Dataset Manager |
|--|---------------------|---------------------|--------------------------|
| Parameter- Elevation Regressions on Independent Slopes Model (PRISM) Dataset | Climate and Weather | Melissa Webb | Rashawn Tama |
| Continuously Operating Reference Stations (CORS) | Geodetic Control | Will Freeman | Kevin Choi |

Action Item Review - Past Due and Current

| In Progress Actions | Responsible Party(ies) | Description | Action or Result |
|--|------------------------|---|---|
| FY19 Theme Implementation Plans | Theme Leads | Update Theme Implementation Plans (TIP) for FY19. Email the NGDATeam@fgdc.gov if you need assistance or a Word version of the final FY18 TIP. ** Due October 31, 2019 ** | Past Due: Please contact the NGDATeam@fgdc.gov for assistance or with status. |
| GeoPlatform Theme feature maps | Theme Leads | Any Themes that would like to make suggestions for featured maps on their GeoPlatform Theme pages, please reach out to the GeoPlatform Technical Team. | Action: Theme Leads provide input to the GeoPlatform Technical Team for Theme page feature maps. Email the GeoPlatform Service Desk servicedesk@geoplatform.gov with any recommendations, requests, or to obtain more information (<i>Note: the NGDA Team is copied on those emails</i>). |

Action Item Review - Past Due and Current

| | | | |
|--|-------------|---|--|
| FY18 Theme Implementation Plan Updates | Theme Leads | Theme Leads review and update Theme Strategic and Implementation Plans by 10/31/18 including the Progress Summary Table | Past Due: All Themes that have not yet submitted FY18 Theme Implementation Plan updates, please review the Theme's FY17 TIP and provide any updates needed for activities or other items. Note that Theme Strategic Plans (TSP) may be updated if needed as well, but only if the previous TSP is not still valid or Agency Strategic Plans require TSP changes. Reach out to the NGDA team for assistance as needed (NGDATeam@fgdc.gov). |
| FY17 Theme Implementation Plan (TIP) Submission | Theme Leads | Theme Leads submit FY17 Theme Implementation Plans by 10/31/17 including 2017 Progress Summary Table. | Past Due: Themes that still need to submit an initial FY17 Theme Implementation Plan (Biodiversity and Ecosystems, Soils, and Utilities), please coordinate with Lorna Schmid (ngdateam@fgdc.gov) with questions or estimated submission date. |

Action Item Review - Past Due and Current

| | | | |
|---|--|---|--|
| NGDA Metadata Improvement Initiative | Theme Leads, Dataset Managers, NGDA Team | <p>Dataset Managers and Theme Leads to review links to respective NGDA metadata records for accuracy: https://communities.geoplatform.gov/ngda-portfolio/ngda-portfolio/ *</p> <p>Dataset Managers to review GeoPlatform Data Themes https://www.geoplatform.gov/ngda/ and suggest content that can supplement existing content.</p> <ul style="list-style-type: none">- Recognizing that Agencies have different mechanisms for publishing web services, if there are any issues associated with getting web services into the metadata record, please reach out to the ngdateam@fgdc.gov. | <p>Ongoing: Emails were sent in September to Dataset Managers and Theme Leads with specific findings of the Web Services and Metadata Project; DSM are reviewing metadata records for <u>Titles, keywords, web services, data download and metadata formatting per the findings.</u></p> <p>Improving metadata will aid in auto-update of content for GeoPlatform Data Theme Resources.</p> |
|---|--|---|--|

2020 Theme Community Meeting Schedule

❖ Meeting Schedule, Agenda, Slides, and Notes:

<https://communities.geoplatform.gov/ngda-portfolio/meetings/>

| Date | Time (Eastern) |
|--------------------|----------------|
| Jan 9 (Thursday)* | 1:00 - 2:30 ET |
| Feb 4 (Tuesday) | 1:00 - 2:30 ET |
| Mar 5 (Thursday) | 1:00 - 2:30 ET |
| Apr 7 (Tuesday) | 1:00 - 2:30 ET |
| May 7 (Thursday) | 1:00 - 2:30 ET |
| June 2 (Tuesday) | 1:00 - 2:30 ET |
| July 9 (Thursday)* | 1:00 - 2:30 ET |
| Aug 4 (Tuesday) | 1:00 - 2:30 ET |
| Sep 3 (Thursday) | 1:00 - 2:30 ET |
| Oct 6 (Tuesday) | 1:00 - 2:30 ET |
| Nov 5 (Thursday) | 1:00 - 2:30 ET |
| Dec 1 (Tuesday) | 1:00 - 2:30 ET |

** Denotes date adjustment due to holiday or other conflict*

Open Discussion

*Next Meeting:
February 4, 2020
1:00 PM – 2:30 PM ET*

